24 October 1952

MEMORANDUM FOR THE FILES : Contract [redacted] Task 1 50X1

FROM [redacted] 50X1

SUBJECT : Engineering Inspection Report - [redacted] 50X1

1. A visit was made to the plant of the Contractor [redacted] 50X1
[redacted] on 15 and 16 of October for the purpose of monitoring the 50X1
progress on the subject contract. The following persons were present 50X1
and took part in the discussion:

[redacted]

2. The most important development on this project is the contractor's decision to replace the spring power drive with a small D. C. motor. This change has resulted in a small size and weight reduction of the unit. The motor is manufactured by the A. W. Hayden Company and provides constant torque output due to the incorporation of a Geneva Escapement device. The power requirements for this device are quite low, being in the order of 6 volts D. C. at 100 milliamperes. The D. C. is obtained by rectifying the output of a 6.3 volt transformer winding. The incorporation of this motor provides better performance of the unit from the standpoint that any given recorded message may be played over and over without having to rewind a spring drive element.

3. A power potentiometer and tap switch has been added to the unit to allow operation over an input voltage range of 70-270 volts A. C. A neon voltage indicator will be used to indicate when the proper voltage is being applied to the unit. There is no provision for automatic voltage regulation in the event of mains voltage fluctuations.

4. Difficulty was encountered in devising satisfactory magnetic recording and reading techniques and this has delayed the program. However this problem has now been solved and the final size and weight of the unit is expected to meet or excel the specified values. It is now estimated that the development model will be completed sometime in December.

5. A progress report summarizing the work performed during the months of July, August and September was reported to have been mailed.

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